

# KD-VP800

RGBHV-to-Component Digital Video Scaler & Video Adapter

## Operating Instructions



The KD-VP800 by Key Digital® is a universal analog Video Scaler and Adapter that converts RGBHV Video sources to Component Video (YPbPr). It is compact and simple to operate using ON-SCREEN menu or clearly labeled buttons on the top of the unit. Convenient pass-through connector allow you to maintain connection to your existing PC monitor. Supports popular video formats like HDTV, NTSC, and PAL.



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The Experts in Digital Video Technology and Solutions™

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## Introduction

Thank you for purchasing the KD-VP800 by Key Digital®, a state-of-the-art universal analog Video Scaler and Adapter. The KD-VP800 is the flexible solution you've been looking for to mix and match RGBHV and Component Video (YPbPr) sources and displays. It also has many well-thought-out features, including:

- Allows you to connect RGBHV sources, such as from your PC, to Component Video (YPbPr) displays:
  - ➔ Pass-through lets you simultaneously maintain connection to your RGBHV PC monitor
- Allows you to adjust different settings via intuitive on-screen menu.
- Supports most analog interlaced and progressive video formats, at 60 Hz or 50 Hz, such as HDTV, NTSC, and PAL:
  - ➔ 1080i (60 & 50 Hz)
  - ➔ 720p (60 & 50 Hz)
  - ➔ 480p (60 Hz)
  - ➔ 576p (50 Hz)
- Uses D4 and HD-15 VGA male connectors, and supports cable runs up to 50 feet.
- Simple to operate with clearly labeled silk-screened buttons on the top cover.
- Performs no video processing other than RGBHV-to-Component Video ensuring perfect image quality from input to output.



## What's Included

The following content is provided with your purchase:

1. One KD-VP800 unit
2. Separate external 12-Volt power supply
3. HD-15 VGA male-to-male cable
4. D4 to RCA cable
5. Mounting clip
6. Operating Manual
7. Warranty card



## Useful Tips

It is suggested that you read and follow this entire Operating Manual. Some useful tips to keep in mind when installing and using the KD-VP800:

1. **Always test the full operation of your unit before final installation of cables behind walls or ceilings.**
2. **Use ONLY the 12V, 1.5 Amp Power Supply provided with your unit.**
3. "Component Video" means "YPbPr" with "Sync" usually provided on the "Y" channel.
4. Limit cable lengths to 50' each, using high-quality cables of equal cable length. (20' for VGA loop-through)
5. The KD-VP800 supports only the following popular analog SD and HD video formats:
  - 1080i (60 & 50 Hz)                      → 720p (60 & 50 Hz)
  - 480p (60 Hz)                              → 576p (50 Hz)
6. Take advantage of the "pass-through" feature to simultaneously connect additional VGA display
7. Verify intended operation via on-screen menu.
8. This video adapter does not support audio. You must handle your audio connections and needs separately.

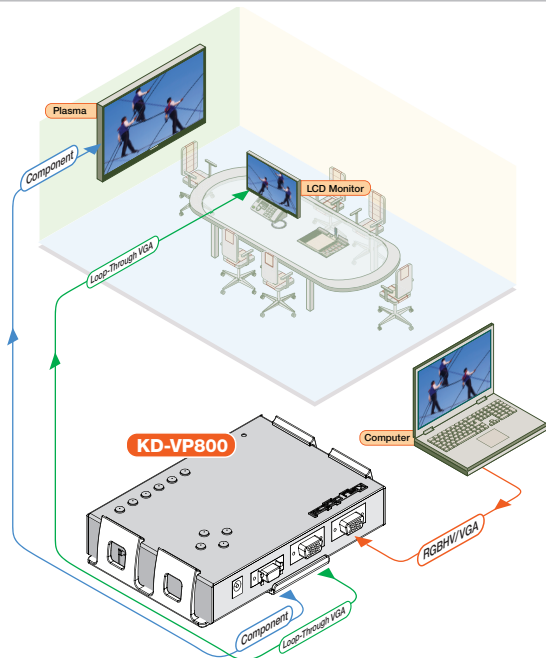
## Installation

The first step to enjoying the KD-VP800 is to install the unit into your system.

Installation is a quick and intuitive process consisting of picking up a correct placement and connecting and powering the unit. Please, refer to the diagram for application example. Take advantage of **ON-SCREEN** menu adjustments as well as clearly labeled buttons on top of the unit to produce best picture quality.

- Refer to the following Application Example for typical installation with the KD-VP800.

## KD-VP800 Boardroom Application



## Connecting the KD-VP800 into your system



**CAUTION:** Always test the full operation of your unit before running cables behind walls or ceilings!

- Find a safe and convenient location to place your KD-VP800 unit. You will need to connect the separate power supply to the unit later. After you have made all wiring connections per the instructions below, you may also want to use the mounting clip provided with your unit.
- Using high-quality video cables, such as those available from Key Digital®, connect your video source to the appropriate input of the KD-VP800. Use high-quality cables of equal cable length.



For **Component Video Output** use provided D4 to Component break-out cable cable.

Connect it to **Y Pb Pr OUT**

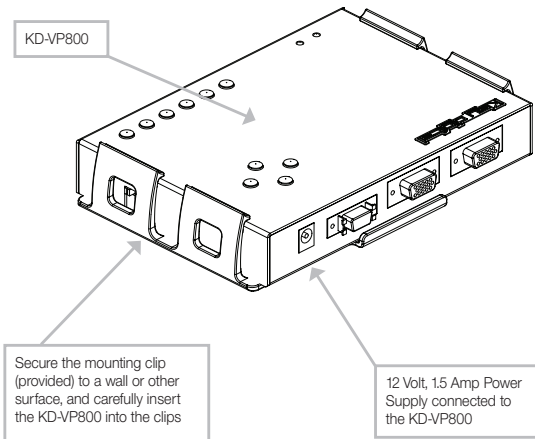
Use HD-15 VGA cable to connect to additional monitor if desired.

For **RGBHV Video inputs**, use HD-15 VGA cables and connect to the female input connector marked **Input** on the unit

**Note:** Do not daisy chain the video connections to another input, since the KD-VP800 has built-in 75  $\Omega$  video terminations

## KD-VP800 Operating Instructions

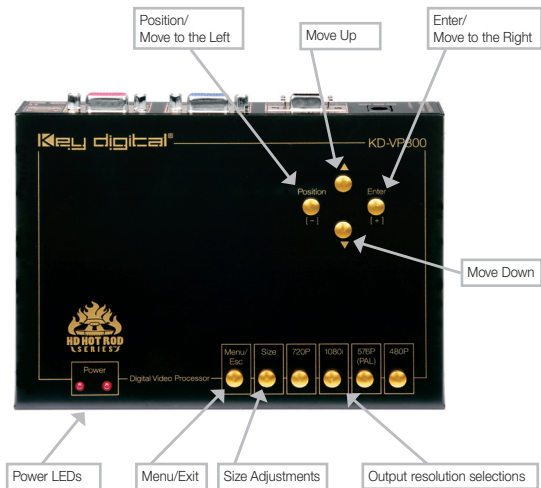
- A mounting clip (bracket) is provided to allow you to secure your KD-VP800 to a wall, rack, etc. It is suggested that you fully operate the unit first (see the following "Configuration and Operation" section of this Operating Manual) before securing the unit in its mounting bracket. Then, use an appropriate fastener to secure the bracket to a safe, dry location, and carefully snap the KD-VP800 into its mounting bracket. If you need to remove the unit from the mounting bracket, use care to pry the unit out without snapping the clips.





## Configuration and Operation

Now that the KD-VP800 is wired into your system, power on the unit by sliding switch on the right side of it. Two Red LEDs on the top of the unit should be lit up indicating that unit is ready to operate.



## Configuration and Operation (continued)

### Video Formats

The KD-VP800 supports only the following, most popular analog interlaced and progressive video formats, like HDTV, NTSC, and PAL:

- 1080i (60 & 50 Hz)
- 720p (60 & 50 Hz)
- 480p (60 Hz)
- 576p (50 Hz)



### On-Screen Menu

Press Menu/Esc button once to display on-screen menu (via Component connection only).

\* You can exit on-screen menu at any point by pressing Menu/Esc button again.

Scroll within the menu by pressing up or down arrows. Select desired function by pressing Enter. Use +, - buttons to select necessary setting.

It is also possible to make size and resolution adjustments without entering on-screen menu, simply by pressing appropriate buttons.

If, during resolution adjustment, a "NO SUPPORT" message comes on your display, it means that computer/VP800 resolution combination not supported - computer resolution setting must be changed.

## Technical Specifications

**Model #: KD-VP800**

**RGBHV-to-Component Video Scaler/Adapter**

### Analog Video Modes

- RGBHV-to-Component (YPbPr) Video conversion

### Pass-Through

- Allows connections to additional VGA monitor

### Resolution

- The KD-VP800 supports the following popular analog SD and HD video formats:
  - ➔ 1080i (60 & 50 Hz)
  - ➔ 720p (60 & 50 Hz)
  - ➔ 480p (60 Hz)
  - ➔ 576p (50 Hz)

### Compatible Video Signals

- Supports most analog interlaced and progressive video formats, at 60 Hz or 50 Hz, like HDTV, NTSC, and PAL:

Compatible Resolutions	480p	576p	720p	1080i
640x480@60Hz	✓	✓	✓	✓
800x600@60Hz	✓	✓	✓	✓
1024x768@60Hz		✓	✓	✓
1280x1024@60Hz			✓	
1024x768@60Hz		✓	✓	✓
1280x1024@60Hz			✓	

## Analog Video Characteristics

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- Output stage drives high-quality, equal-length video cables up to 50' (20' for additional VGA display)
- 1V p-p @ 75 ohms, terminated
- Composite video sync on "Y" input (YPbPr)
- Video bandwidth:
  - ➔ -3 dB @ 150 MHz
  - ➔ Linear phase pass-band
- Unity video gain
- Loop-through VGA
  - ➔ Do not daisy chain inputs

## Connectors

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- RGBHV Input Port and Output Port are HD-15 VGA female connectors
- D4 Component Video Output Port
- 3.5 mm jack for the external power supply input

## Mechanical

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- Size: 6.1/4" x 4.1/2" x 1"
- Weight: 1.5 lbs.
- Shipping weight: 2.0 lb.
- Enclosure Type: Black Metal
- Mounting: Wall mounting bracket

## Power Requirements

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- External power supply provided
- + 12V DC @ 1.5 Amps, 110-240 VAC, 50-60 Hz

**CAUTION:** No other power supply adapter can be used with this unit! Using a power supply other than the one provided by Key Digital® with the unit **VOIDS THE ENTIRE PRODUCT WARRANTY**, may cause damage to the unit and associated equipment, and is a potential safety hazard.

## How to Contact Key Digital®

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### System Design Group (SDG)

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For system design questions please contact us at:

- › Phone: **914-667-9700**
- › E-mail: [sdg@keydigital.com](mailto:sdg@keydigital.com)

### Key Digital Trainings

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For questions about Key Digital Trainings please contact us at:

- › Phone: **914-667-9700**
- › E-mail: [training@keydigital.com](mailto:training@keydigital.com)

### Customer Support

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For customer support questions please contact us at:

- › Phone: **914-667-9700**
- › E-mail: [customersupport@keydigital.com](mailto:customersupport@keydigital.com)

### Technical Support

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For technical questions about using Key Digital® products, please contact us at:

- › Phone: **914-667-9700**
- › E-mail: [tech@keydigital.com](mailto:tech@keydigital.com)

### Marketing and Public Relations:

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For marketing and public relations information, please contact us at:

- › Phone: **914-667-9700**
- › E-mail: [marketing@keydigital.com](mailto:marketing@keydigital.com)

## How to Contact Key Digital® *(continued)*

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### Shipping

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For shipping questions please contact us at:

- › Phone: **914-667-9700**
- › E-mail: [shipping@keydigital.com](mailto:shipping@keydigital.com)

### Accounting:

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For accounting questions please contact us at:

- › Phone: **914-667-9700**
- › E-mail: [accounting@keydigital.com](mailto:accounting@keydigital.com)

### Repairs and Warranty Service

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Should your product require warranty service or repair, please obtain a Key Digital® Return Material Authorization (RMA) number by contacting us at:

- › Phone: **914-667-9700**
- › E-mail: [rma@keydigital.com](mailto:rma@keydigital.com)

### Warranty

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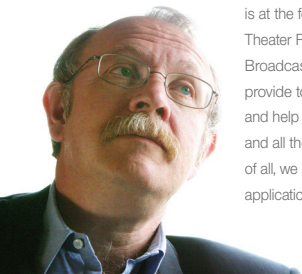
All Key Digital® products are built to high manufacturing standards and should provide years of trouble-free operation. They are backed by a limited two-year parts and labor warranty.

## Installation Notes



The Experts in Digital Video Technology and Solutions™

Key Digital®, led by digital video pioneer Mike Tsinberg, develops and manufactures high quality, cutting-edge technology solutions for virtually all applications where high quality video imaging is important. Key Digital® is at the forefront of the video industry for Home Theater Retailers, Custom Installers, System Integrators, Broadcasters, Manufacturers, and Consumers. We provide total video system solutions because we know and help drive the technology, the industry, the business, and all the latest up-and-coming standards. But most of all, we know exactly what you need for your unique application - the right solution.



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